



# GMAT-QUANTITIVE<sup>Q&As</sup>

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**QUESTION 1**

What is the numerical value of  $x^2 - 25$ ?

(1)

$$x - 5 = 3$$

(2)

$$4 - x = 5$$

A.

Statement (1), BY ITSELF, will suffice to solve the problem, but NOT statement (2) by itself.

B.

Statement (2), BY ITSELF, will suffice to solve the problem, but NOT statement (1) by itself.

C.

The problem can be solved using statement (1) and statement (2) TOGETHER, but not ONLY statement (1) or statement (2).

D.

The problem can be solved using EITHER statement (1) only or statement (2) only.

E.

The problem CANNOT be solved using statement (1) and statement (2) TOGETHER.

Correct Answer: C

Since  $x^2 - 25$  is the difference between two perfect squares, its factors are  $(x - 5)$  and  $(x + 5)$ . Statement

(1) gives the value of  $x - 5$ . Statement (2) can be changed from  $4 - x = 5$  to  $4 = x + 5$  by adding  $x$  to both sides of the equation. Since you now know the numerical value of each factor, you can find the numerical value of  $x^2 - 25$ .

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**QUESTION 2**

If  $5 = 13$ , which of the following can describe  $a$  ?

A.  $3a + 1$ .

B.  $2a + 3$ .

C.  $3a - 2$ .

D.  $3a - 1$ .

E. Answers B. and (c).



Correct Answer: E

Check each and every answer:

A.  $5 = 3 \times 5 + 1 = 16.$

B.  $5 = 2 \times 5 + 3 = 13.$

C.  $5 = 3 \times 5 - 2 = 13.$

There is no need to check the final answer because we already know the right answer.

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### QUESTION 3

If Y is a positive integer, does Y have four distinct positive factors?

(1)

$Y = 8.$

(2)

Y is a multiplication of two different odd numbers.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: A

Statement (1) is sufficient since 8 has the following factors: 1, 2, 4 and 8. Statement (2) is not sufficient. For example, take 1 and 3, the product is 3, which has only two factors. But if you take 3 and 5, the product is 15 and we have 1,3,5 and 15 as factors of y, and we have four factors.

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### QUESTION 4



Jean and Jordy each had to wash half of a rectangular floor. If Jean finished his part of the job after 45 minute, how long will it take Jordy to finish his half?

(1)

Jean can wash 10 meters square in 5 minutes, which is twice as fast as Jordy.

(2)

The area of the rectangular floor is 180 meters squared.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: A

We know how much time it took Jean to wash the floor and we need Jordy's time. Statement (1) tells us that the rate of Jean is double than the rate of Jordy and therefore it will take him twice as long to wash his half of the floor. The numbers that describe the rate of Jean are irrelevant to the question and so is statement (2) .

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### QUESTION 5

An ant walks an average of 500 meters in 12 minutes. A beetle walks 15% less distance at the same time on the average. Assuming the beetle walks at her regular rate, what is its speed in km/h?

A. 2.215.

B. 2.5.

C. 2.775.

D. 3.2.

E. 3.5.

Correct Answer: A



A beetle moves ( $0.85 \times 500 = 425$  meters) in 12 minutes that is equal to 0.425 Km in  $\frac{1}{5}$  of an hour. The speed in the right units is  $0.425 \times 5 = 2.125$  Km/h.

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